

Gas Discharge Tube

B8G600M Order Code: B8G600M-01

Version: A1 2014-04-23

Features

- Size Design Φ8×6mm
- High Current Handling Capability 10,000A @ 8/20 μ s
- Low Capacitance and Insertion Loss
- Fast Response and Long Service Life
- Reliable to Protect Electrostatic Surge
- Moisture sensitivity level: Level 1

Application information

AC Power

Exterior



Package (Top View)



Agency Approvals

Icon	Description						
RoHS	Compliance with 2011/65/EU						
HF	HF Compliance with IEC61249-2-21:2003						
6	Mean lead free						
.81	Compliance with UL1449, Certificated E232249						

Schematic Symbol



DC Breakdown Voltage ^{1) 2)}	100V/s	480-720	V
Impulse Spark-over Voltage	At 1kV/μs	for 99 % of measured values ≤ 1400	V
Impulse Spark-over Voltage	At 1kV/μs	Typical values of distribution ≤ 1300	V
Impulse Discharge Current ³	8/20μs ±5times	10	KA
Arc Voltage	At 1A	~15	V
Insulation Resistance	DC=100V	≥1	GΩ
Capacitance at 1 MHz	V _{DC} =0.5V	≤1.5	pF
Weight		~1.55	g
Operating and storage Temperature		-40-90	°C
Marking		Bencent Logo, Voltage and date code	

1) At delivery AQL 0.65 level II GB/T 2828.1-2003

2) In ionized mode

3) Terms and current waveforms in accordance with ITU-T Rec. K. 12; IEC 61643-21



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Gas Discharge Tube Part Numbering Syster

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B8G XXX M

(1) (2) (3)

(1)Bencent 2-Electrode DIP Gas Discharge Tube with dimension: Φ8.0×6 (D×L) (mm)

(2) DC Breakdown Voltage, e.g.,600=600V

(3) Surge Rating @ $8/20 \mu$ s, M=10KA

Product Characteristics

Lead Material	Copper
Body Material	Ceramics
	Iron-nickel electrode
Terminal Finish	100% Matte-Tin Plated

Environmental Reliability Characteristics

Testing items	Technical standards	
High Temperature Storage Test	Temperature: 85℃ Time:2H	
Low Temperature Storage Test	Temperature: -40℃ Time:2H	
Vibration	Frequency: 10-500Hz Amplitude: 0.15mm Time: 45mins	
Resistance of soldering heat	Temperature: 260±5℃ Time of dip soldering: 10s, 1time	

Note: Up-screen program can be specified by customer's request via contacting Bencent service

Solderability Test

Saldarahility	Solder Pot Temperature:	245°C±5°C
Solderability	Solder Dwell Time:	4-6 seconds

Product Dimensions





REF	mm	inch
А	62±2	2.441±0.079
В	6±0.2	0.236±0.008
С	$\Phi 8 \pm 0.2$	$\Phi 0.315 \pm 0.008$

2/3 www.bencent.com.cn

Specifications are subject to change without notice. Customers should verify actual device performance in their specific applications



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Wave Soldering Profile

Wav	e Soldering Condition	Pb-Free assembly				
Pre Heat	Temperature Min	100°C				
	Temperature Max	150°C				
	Time (min to max)	60 – 180 secs				
Sol	lder Pot Temperature	280°C Max				
	Solder Dwell Time	2-5 seconds				



Package Reel Information



REF	mm	inch
W	65±3	2.559 ± 0.118
Р	10 ± 1	0.394 ± 0.039
А	Φ 340 \pm 2	$\Phi 13.386 \pm 0.079$
В	$\Phi 83 \pm 2$	$\Phi 3.268 \pm 0.079$
С	73±3	2.874±0.118

OUTLINE	REEL	PER CARTON	CARTON SIZE(mm)						
	(PCS)	(PCS)	L	W	Н				
TAPING	700	4200	480	350	360				

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